Application No.: 09/939,773 Docket No.: SON-2192

AMENDMENTS TO THE CLAIMS

Please amend the claims as set forth below in marked-up form:

1. (Currently Amended) A manufacturing method of a phase-shift mask, comprising: seeking a relationship of optical conditions of an exposure optical system used for exposure and a mask structure with displacement of a pattern to be transferred by exposure;

finding said optical conditions and said mask structure that limit displacement of said pattern within a required range, taking manufacturing errors of the mask into consideration;

examining the optical conditions and the mask structure obtained to determine whether they ensure a required exposure tolerance and a required focal depth; and

executing fabrication of such a mask to obtain said mask structure when the result of the examination is acceptable; wherein

said optical conditions include, at least, a numerical aperture and a partial coherence factor.

2. (Cancelled)

- 3. (Previously Presented) The manufacturing method of a phase-shift mask according to claim 1 wherein said phase-shift mask is a Levenson phase-shift mask.
- 4. (Previously Presented) The manufacturing method of a phase-shift mask according to claim 3 wherein said Levenson phase-shift mask is of a substrate-excavation-type, and said mask structure is regulated by the amount of excavation of a substrate.
- 5. (Previously Presented) The manufacturing method of a phase-shift mask according to claim 1 wherein said Levenson phase-shift mask is of a phase-shifter-added-type, and said mask structure is regulated by the thickness of a phase shifter.
- 6. (Currently Amended) A method of making a resist pattern through exposure using a phase-shift mask, comprising:

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seeking a relationship of optical conditions of an exposure optical system used for exposure and a mask structure of said phase-shift mask with displacement of a pattern to be transferred by exposure;

finding said optical conditions and said mask structure that limit displacement of said pattern within a required range, taking manufacturing errors of the mask into consideration;

examining the optical conditions and the mask structure obtained to determine whether they ensure a required exposure tolerance and a required focal depth; and

when the result of the examination is acceptable, fixing said exposure optical system to the optical conditions selected, then actually manufacturing said phase-shift mask having the mask structure selected, and conducting exposure using said exposure optical system and said phase-shift mask; wherein

said optical conditions include, at least, a numerical aperture and a partial coherence factor.

- 7. (Cancelled)
- 8. (Previously Presented) The method of making a resist pattern according to claim 6 wherein said phase-shift mask is a Levenson phase-shift mask.
- 9. (Previously Presented) The method of making a resist pattern according to claim 8 wherein said Levenson phase-shift mask is of a substrate-excavation-type, and said mask structure is regulated by the amount of excavation of a substrate.
- 10. (Previously Presented) The method of making a resist pattern according to claim 8 wherein said Levenson phase-shift mask is of a phase-shifter-added-type, and said mask structure is regulated by the thickness of a phase shifter.
 - 11. (Canceled)
 - 12. (Canceled)
 - 13. (Canceled)

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14. (Canceled)

15. (Canceled)